

Notice of Allowability

Application No.

09/615,183

Examiner

Philip B. Tran

Applicant(s)

CURLEY ET AL.

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/22/2005.
2. ☒ The allowed claim(s) is/are 2,3,5-13 and 15-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date Attached.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Philip Tran
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Feekes (Reg. No. 51,670), the undersigned, on March 17, 2006. The application has been amended as follows:

IN THE CLAIMS:

Claims 1, 4, 14 and 18-22 have been canceled.

Claims 2, 5-6, 11-13 and 16-17 have been amended.

Claim 2 has been amended as follows:

2. (Currently Amended) A computer-implemented method of optimizing the synchronization of data between a client computer having a client database and a server computer having a server database, wherein each database comprises a plurality of database items that maintain a parent-child hierarchical tree relationship comprising at least one parent database item and at least one associated child database item, comprising:

receiving at the server computer a parent database item transferred from the client computer that maintains a parent-child hierarchical tree relationship with child database items in the client database;

assigning a status code to the parent database item received at the server computer, the status code being based upon the detection or non-detection of a data transfer error that is characteristic of an error condition;

transmitting the status code assigned to the parent database item to the client computer, wherein the status code is assigned to the parent database item stored in the client database;

updating a status code of the child database items associated with the parent database item in the client database, the updated status code of child database items being based on the status code of the parent database item;

selectively communicating child database items associated with the parent database item from the client computer to the server computer, wherein child database items associated with the parent database item are communicated if the status code indicates a non-detection of a data transfer error that is characteristic of an error condition associated with the parent database item; and

synchronizing the communicated child database item with a corresponding child database item stored on the server computer;

assigning a server ID to the database item received at the server computer if no transfer error was detected that is characteristic of an error condition; and

transmitting the server ID assigned to the database item to the client computer.

Claim 5 has been amended as follows:

5. (Currently amended) The method of Claim ~~[[4]]~~ 2, wherein the status code and the server ID are assigned by the server computer.

Claim 6 has been amended as follows:

6. (Currently amended) The method of Claim ~~[[4]]~~ 2, further comprising updating a server ID of child database items associated with the parent database item, the updated server ID of the child database items being based on the server ID of the parent database item; and wherein the selective transmission of child database items associated with the parent database item to the server computer is also based on the server ID of the child database item.

Claim 11 has been amended as follows:

11. (Currently amended) A computer-readable medium containing computer-readable instructions which, when executed by a computer, perform the method of ~~any one of Claims 2-10~~ ~~[[.]]~~ claim 2.

Claim 12 has been amended as follows:

12. (Currently Amended) A computer-controlled apparatus for performing the method of ~~any one of Claims 2-10~~ [[.]] **claim 2.**

Claim 13 has been amended as follows:

13. (Currently amended) A computer-implemented method of optimizing the synchronization of data stored in a client computer database with data stored in a server computer database, wherein each database comprises a plurality of database items arranged in a parent-child hierarchical tree relationship comprising at least one parent database item and at least one associated child database item, comprising:

transmitting a parent database item that maintains a parent-child hierarchical tree relationship with child database items in the client database from a client computer to a server computer;

receiving at the client computer mapping information for the parent database item generated by the server computer, the mapping information being based upon the detection or non-detection of a data transfer error that is characteristic of an error condition associated with the parent database item;

updating a status code of child database items associated with the parent database item, the updated status code of child database items being based on the mapping information; and

selectively transmitting child database items from the client computer to the server computer, wherein child database items associated with the parent database

item are communicated if the mapping information indicates a non-detection of a data transfer error that is characteristic of an error condition associated with the parent database item; and

synchronizing the communicated child database item with a corresponding child database item stored on the server computer; and

wherein the mapping information also includes a server ID;

updating a server ID of child database items associated with the parent database item, the updated server ID being based on the mapping information;
and

wherein the selective transmission of child database items from the client computer to the server computer is also based on the server ID of the child database items.

Claim 16 has been amended as follows:

16. (Currently amended) A computer-readable medium containing computer-readable instructions which, when executed by a computer, perform the method of ~~any one of Claims 13-15~~ [[.]] claim 13.

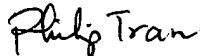
Claim 17 has been amended as follows:

17. (Currently amended) A computer-controlled apparatus for performing the method of ~~any one of Claims 13-15~~ [[.]] claim 13.

REASONS FOR ALLOWANCE

3. Claims 2-3, 5-13 and 15-17 are allowable over the prior art of record.
4. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e). In this case, the substance of applicant's remarks in the Amendment filed on 22 December 2005 with respect to the amended claim limitations point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).
5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip B. Tran whose telephone number is (571) 272-3991. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Philip B. Tran
Primary Examiner
Art Unit 2155
March 17, 2006